

# Soybean Fungicide Trial

**Trial ID: 2020-SF06 – R.M. of St. Andrews**

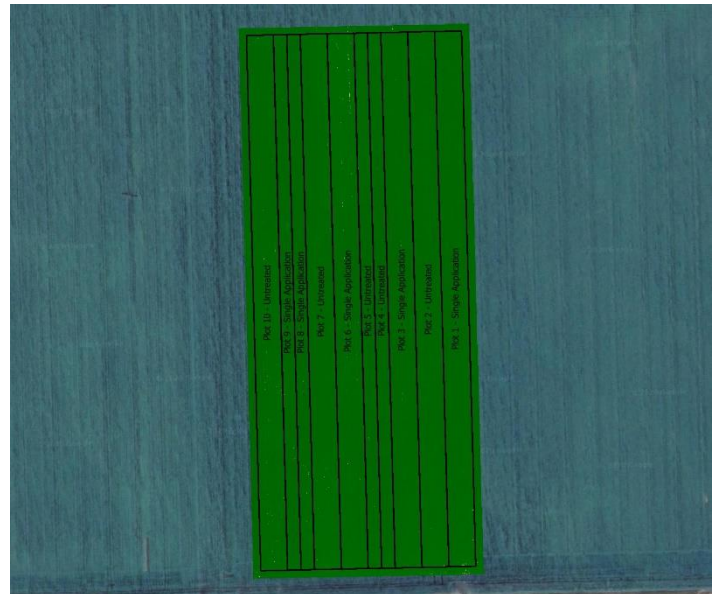
**Objective:** Quantify the agronomic and economic impacts of a single foliar fungicide application in soybeans

**Summary:** Septoria brown spot was prevalent throughout the trial. There was no significant yield difference between soybeans with and without a single application of Dyax. Due to the lack of yield response, there was a decrease in profit/ac in the treated area of the trial, equivalent to the cost of the fungicide application.

## Trial Information

<b>Treatment</b>	Dyax
<b>Application Timing</b>	R2
<b>Application Date</b>	July 17
<b>Application Rate</b>	160 ml/ac
<b>Application Method</b>	Broadcast
<b>Soil Texture</b>	Clay
<b>Previous Crop</b>	Wheat
<b>Tillage</b>	Zero Till
<b>Seeding Date</b>	May 22
<b>Variety</b>	24-10RY
<b>Seeding Rate</b>	190 000 seeds/ac
<b>Row Spacing</b>	10"
<b>Plant Stand @ R5</b>	128 000 plants/ac
<b>Harvest Date</b>	September 26

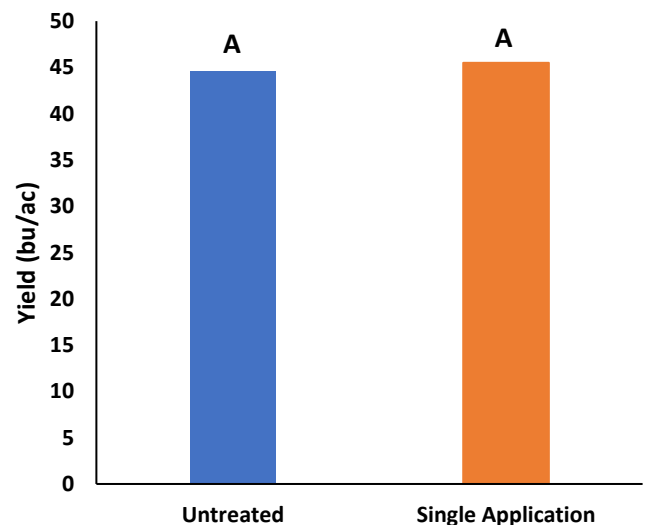
## NDVI Field Image†



## Precipitation (mm)

	May	June	July	August
<b>Normal</b>	53.8	92	66.4	63.3
<b>Rainfall</b>	11.4	60.4	40.5	79.5

## Yield by Treatment



## Summary of Disease Rating (R4) †

	Frogeye		Septoria Brown Spot		White Mould	
	UN	SGL	UN	SGL	UN	SGL
<b>Incidence</b>	0%	0%	78%	60%	0%	0%
<b>Severity</b>	n/a	n/a	1.04	0.76	0.0	0.0

† SGL=Single application; Frogeye (presence/absence), septoria brown spot 0 – 5 rating scale, white mould 0 – 3 rating scale; bacterial blight present throughout the trial



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### Overall Yield & Economics

	<b>Mean (bu/ac)</b>	<b>Cost †</b>	<b>Change in Profit/ac ††</b>
<b>Single Application</b>	45.5	\$15/ac	-\$15/ac
<b>Untreated</b>	44.6		
<b>Yield Difference</b>	0.9		
<b>P-Value</b>	0.0966		
<b>CV</b>	3.1%		
<b>Significance</b>	<b>No</b>	<b>Economic</b>	<b>No</b>

† Based on an estimated cost for a single application of soybean fungicide

† † Because yields were not significantly different, there was no increased income with fungicide application to offset the cost of the product